

SEQUENCE LISTING

<110> ARES TRADING S.A.
 <110> FAGAN, Richard Joseph
 <110> DAVIDS, Andrew Robert
 <110> PHELPS, Christopher Benjamin
 <110> POWER, Christine
 <110> BOSCHERT, Ursula
 <110> CHVATCHKO, Yolande

<120> CYTOKINE AGONIST MOLECULES

<130> P035815WO

<140> PCT/GB2004/004772

<141> 2004-11-12

<150> GB0326393.6

<151> 2003-11-12

<160> 31

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<211> 85

<212> DNA

<213> Homo sapiens

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atgaagagag aaaggggagc cctgtccaga gcctccaggg ccctgcgcct tgctcctttt 60
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<211> 29

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<213> Homo sapiens

<400> 2

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
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Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp
 20 25

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<211> 342

<212> DNA

<213> Homo sapiens

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 ggcagctgaa gcgggacaag ccagtgaccg tgggtgcagtc cattggcaca gaggtcatcg 180
 gcaccctgcg gcctgactat cgagaccgta tccgactctt tgaaaatggc tccctgcttc 240

tcagcgacct gcagctggcc gatgagggca cctatgaggt cgagatctcc atcaccgacg 300
 acaccttcac tggggagaag accatcaacc ttactgtaga tg 342

<210> 4
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 <212> PRT
 <213> Homo sapiens

<400> 4
 Pro Leu Glu Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly
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 Thr Val Gly Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser
 20 25 30
 Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val
 35 40 45
 Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro
 50 55 60
 Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu
 65 70 75 80
 Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser
 85 90 95
 Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val
 100 105 110

Asp Val

<210> 5
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 <212> DNA
 <213> Homo sapiens

<400> 5
 tgcccatctt gaggccacag gtgttggtgg cttcaaccac tgtgctggag ctcagcgagg 60
 ccttcacctt gaactgctca catgagaatg gcaccaagcc cagctacacc tggctgaagg 120
 atggcaagcc cctcctcaat gactcgagaa tgctcctgtc ccccgaccaa aaggtgctca 180
 ccatcaccg cgtgctcatg gaggatgacg acctgtacag ctgcatgggtg gagaacccca 240
 tcagccaggg ccgcagcctg cctgtcaaga tcaccgtata ca 282

<210> 6
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 6
 Pro Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu
 1 5 10 15
 Leu Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys

	20		25		30										
Pro	Ser	Tyr	Thr	Trp	Leu	Lys	Asp	Gly	Lys	Pro	Leu	Leu	Asn	Asp	Ser
		35					40					45			
Arg	Met	Leu	Leu	Ser	Pro	Asp	Gln	Lys	Val	Leu	Thr	Ile	Thr	Arg	Val
	50					55					60				
Leu	Met	Glu	Asp	Asp	Asp	Leu	Tyr	Ser	Cys	Met	Val	Glu	Asn	Pro	Ile
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Ser	Gln	Gly	Arg	Ser	Leu	Pro	Val	Lys	Ile	Thr	Val	Tyr	Arg		
				85					90						

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 <212> DNA
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 tgacagtctg tgctgctgg aaaccctcca aaag 94

<210> 8
 <211> 31
 <212> PRT
 <213> Homo sapiens

	8														
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Val	Thr	Leu	Val	Thr	Val	Cys	Ala	Cys	Trp	Lys	Pro	Ser	Lys	Arg	
			20					25					30		

<210> 9
 <211> 74
 <212> DNA
 <213> Homo sapiens

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 cctgaaacca gaag 74

<210> 10
 <211> 25
 <212> PRT
 <213> Homo sapiens

	10														
Lys	Gln	Lys	Lys	Leu	Glu	Lys	Gln	Asn	Ser	Leu	Glu	Tyr	Met	Asp	Gln
1				5				10					15		
Asn	Asp	Asp	Arg	Leu	Lys	Pro	Glu	Ala							
			20					25							

<210> 11
 <211> 71
 <212> DNA
 <213> Homo sapiens

<400> 11
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 tgaaggacaa g 71

<210> 12
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 12
 Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys Asn Pro Met Ala
 1 5 10 15

Leu Tyr Ile Leu Lys Asp Lys
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<210> 13
 <211> 303
 <212> DNA
 <213> Homo sapiens

<400> 13
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 tcgcccggca gggccccgag ctgcggccggc cgctcgcgca ggcctcgcg cacactgcgg 240
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<210> 14
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 14
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Thr Glu Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly
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Arg Ser Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser
 35 40 45

Pro Ala Arg Ser Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg
 50 55 60

Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg
 65 70 75 80

Thr Ala Gly Val His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val
 85 90 95

Glu Ile Ser Ala
 100

<210> 15
 <211> 1251
 <212> DNA
 <213> Homo sapiens

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 cgcctgatcc atggcaccgt ggggaagtcg gctctgcttt ctgtgcagta cagcagtacc 180
 agcagcgaca ggcctgtagt gaagtggcag ctgaagcggg acaagccagt gaccgtgggtg 240
 cagtccattg gcacagaggt catcggcacc ctgcggcctg actatcgaga ccgtatccga 300
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 gtagatgtgc ccatttcgag gccacaggtg ttggtggctt caaccactgt gctggagctc 480
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 accgaggaga acccggcccc ggagcctcga agcgcgacgg agcccggccc gcccggtac 1020
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<210> 16
 <211> 416
 <212> PRT
 <213> Homo sapiens

<400> 16
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
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 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys
 260 265 270
 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg
 275 280 285
 Leu Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg
 290 295 300
 Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu
 305 310 315 320
 Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly
 325 330 335
 Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly
 340 345 350
 Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser
 355 360 365

Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser
370 375 380

Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val
385 390 395 400

His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
405 410 415

<210> 17
<211> 1257
<212> DNA
<213> Mus musculus

<400> 17
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cgtctgatcc acggcacagt ggggaagtcg gccctgcttt ccgtgcagta cagtagcacc 180
agcagcgaca agcccgtggt gaagtggcag ctgaagcgtg acaagccagt gaccgtggtg 240
cagtctatag gcacagaggt cattggcact ctgcggcctg actatcgaga ccgtatccgg 300
ctctttgaaa atggctcctt gcttctcagc gacctgcagc tggcggatga gggaacctat 360
gaagtggaga tttccatcac tgacgacacc ttcaccgggg agaagaccat caacctcacc 420
gtggatgtgc ccatttcaag gccgcaggta ttagtggctt caaccactgt gctggagctc 480
agtgaggcct tcaccctcaa ctgctcccat gagaatggca ccaagcctag ctacacgtgg 540
ctgaaggatg gcaaaccctt cctcaatgac tcccgaatgc tcctgtcccc tgaccaaag 600
gtgctcacca tcacccgagt actcatggaa gatgacgacc tgtacagctg tgtggtggag 660
aaccocatca gccagggtccg cagcctgcct gtcaagatca ctgtgtatag aagaagctcc 720
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ttggaataca tggatcagaa tgatgaccgc ctaaaatcag aagcagatac cctaccccga 900
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ccgcgggccc cgagctcgcc aggccgctcg cgcagctctt cgcgctcact gcggactgca 1200
ggcgtgcaga gaatccggga gcaggacgag tcagggcagg tggagatcag tgccctga 1257

<210> 18
<211> 418
<212> PRT
<213> Mus musculus

<400> 18
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Leu Ser Pro Phe Val Tyr Leu Leu Leu Ile Gln Pro Val Pro Leu Glu
20 25 30
Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45
Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Lys
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Val Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Lys Ser Arg Lys Lys
 260 265 270
 Arg Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp
 275 280 285
 Asp Arg Leu Lys Ser Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln
 290 295 300
 Glu Arg Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser
 305 310 315 320
 Ser Glu Pro Asp Glu Asn Pro Ala Thr Glu Pro Arg Ser Thr Thr Glu
 325 330 335
 Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Pro Val Pro Gly Arg Ser
 340 345 350

Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala
 355 360 365

Arg Ser Pro Ala Thr Gly Arg Thr His Thr Ser Pro Pro Arg Ala Pro
 370 375 380

Ser Ser Pro Gly Arg Ser Arg Ser Ser Ser Arg Ser Leu Arg Thr Ala
 385 390 395 400

Gly Val Gln Arg Ile Arg Glu Gln Asp Glu Ser Gly Gln Val Glu Ile
 405 410 415

Ser Ala

<210> 19
 <211> 720
 <212> DNA
 <213> Homo sapiens

<400> 19
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 cgcctgatcc atggcaccgt ggggaagtcg gctctgcttt ctgtgcagta cagcagtacc 180
 agcagcgaca ggctgttagt gaagtggcag ctgaagcggg acaagccagt gaccgtggtg 240
 cagtccattg gcacagaggt catcggcacc ctgcggcctg actatcgaga ccgtatccga 300
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 gtagatgtgc ccatttcgag gccacaggtg ttggtggctt caaccactgt gctggagctc 480
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 ctgaaggatg gcaagcccct cctcaatgac tcgagaatgc tcctgtcccc cgaccaaaaag 600
 gtgctcacca tcacccgcgt gctcatggag gatgacgacc tgtacagctg catggtggag 660
 aaccccatca gccagggccg cagcctgcct gtcaagatca ccgtatacag aagaagctcc 720

<210> 20
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 20
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
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 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240

<210> 21
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 21
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 gacaagccag tgaccgtggt gcagtcattt ggcacagagg tcatcggcac cctgcggcct 180
 gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag 240
 ctggccgatg agggcaccta tgaggtcgag atctccatca ccgacgacac cttcactggg 300
 gagaagacca tcaaccttac tgtagatgtg cccatttcga ggccacaggt gttgggtggc 360
 tcaaccactg tgctggagct cagcgaggcc ttcaccttga actgctcaca tgagaatggc 420
 accaagccca gctacacctg gctgaaggat ggcaagcccc tcctcaatga ctcgagaatg 480
 ctctgtccc ccgaccaaaa ggtgctcacc atcaccgcgc tgctcatgga ggatgacgac 540
 ctgtacagct gcatgggtgga gaacccatc agccagggcc gcagcctgcc tgtcaagatc 600
 accgtataca gaagaagctc c 621

<210> 22
 <211> 207
 <212> PRT
 <213> Homo sapiens

<400> 22

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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 Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30
 Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45
 Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60
 Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
 65 70 75 80
 Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95
 Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110
 Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125
 Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140
 Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160
 Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175
 Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190
 Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 195 200 205

<210> 23
 <211> 328
 <212> DNA
 <213> Homo sapiens

<400> 23
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 gacaagccag tgaccgtggt gcagtccatt ggcacagagg tcatcggcac cctgcggcct 180
 gactatcgag accgtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag 240
 ctggccgatg agggcaccta tgaggtcgag atctccatca ccgacgacac cttcactggg 300
 gagaagacca tcaaccttac tgtagatg 328

<210> 24
 <211> 110
 <212> PRT

<213> Homo sapiens

<400> 24

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val
100 105 110

<210> 25

<211> 1152

<212> DNA

<213> Homo sapiens

<400> 25

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tctgtgcagt	acagcagtag	cagcagcgac	aggcctgtag	tgaagtggca	gctgaagcgg	120
gacaagccag	tgaccgtggt	gcagtccatt	ggcacagagg	tcacggcac	cctgcggcct	180
gactatcgag	accgtatccg	actctttgaa	aatggctccc	tgcttctcag	cgacctgcag	240
ctggccgatg	agggcaccta	tgaggctcag	atctccatca	ccgacgacac	cttcaactgg	300
gagaagacca	tcaaccttac	tgtagatgtg	cccatttcga	ggccacaggt	gttggtggct	360
tcaaccactg	tgctggagct	cagcgaggcc	ttcaccttga	actgctcaca	tgagaatggc	420
accaagccca	gctacacctg	gctgaaggat	ggcaagcccc	tcctcaatga	ctcgagaatg	480
ctcctgtccc	ccgaccaaaa	ggtgctcacc	atcacccgcg	tgctcatgga	ggatgacgac	540
ctgtacagct	gcatggtgga	gaaccccatc	agccagggcc	gcagcctgcc	tgtcaagatc	600
accgtataca	gaagaagctc	cctttacatc	atcttgtcta	caggaggcat	cttcctcctt	660
gtgaccttgg	tgacagtctg	tgccctgctg	aaaccctcca	aaaggaaaca	gaagaagcta	720
gaaaagcaaa	actccctgga	atacatggat	cagaatgatg	accgcctgaa	accagaagca	780
gacaccctcc	ctcgaagtgg	tgagcaggaa	cggaagaacc	ccatggcact	ctatatcctg	840
aaggacaagg	actccccgga	gaccgaggag	aacccgccc	cggagcctcg	aagcgcgacg	900
gagcccggcc	cgcccggcta	ctccgtgtct	cccgcctgct	cggccgctc	gccggggctg	960
cccatccgct	ctgcccgcg	ctaccgcgc	tcccagcgc	gctccccagc	caccggccgg	1020
acacactcgt	cgccgcccag	ggccccgagc	tcgcccggcc	gctcgcgcag	cgctcgcgc	1080
acactgcgga	ctgcgggcgt	gcacataatc	cgcgagcaag	acgaggccgg	cccgggtggag	1140
atcagcgcct	ga					1152

<210> 26

<211> 383

<212> PRT

<213> Homo sapiens

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<400>    26
Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
1          5          10          15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
          20          25          30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
          35          40          45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50          55          60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
65          70          75          80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
          85          90          95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
          100          105          110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
          115          120          125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
          130          135          140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
145          150          155          160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
          165          170          175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
          180          185          190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Leu
          195          200          205

Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu Val
          210          215          220

Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys Leu
225          230          235          240

Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg Leu
          245          250          255

Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys
          260          265          270

Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu Thr
          275          280          285

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Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly Pro
290 295 300

Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly Leu
305 310 315 320

Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser Pro
325 330 335

Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser Pro
340 345 350

Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val His
355 360 365

Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
370 375 380

<210> 27
<211> 256
<212> PRT
<213> Homo sapiens

<400> 27
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
145 150 155 160

<400>	28														
Met	Lys	Arg	Glu	Arg	Gly	Ala	Leu	Ser	Arg	Ala	Ser	Arg	Ala	Leu	Arg
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Leu	Ala	Pro	Phe	Val	Tyr	Leu	Leu	Leu	Ile	Gln	Thr	Asp	Pro	Leu	Glu
			20					25					30		
Gly	Val	Asn	Ile	Thr	Ser	Pro	Val	Arg	Leu	Ile	His	Gly	Thr	Val	Gly
		35					40					45			
Lys	Ser	Ala	Leu	Leu	Ser	Val	Gln	Tyr	Ser	Ser	Thr	Ser	Ser	Asp	Arg
	50					55					60				
Pro	Val	Val	Lys	Trp	Gln	Leu	Lys	Arg	Asp	Lys	Pro	Val	Thr	Val	Val
65					70					75					80
Gln	Ser	Ile	Gly	Thr	Glu	Val	Ile	Gly	Thr	Leu	Arg	Pro	Asp	Tyr	Arg
				85					90					95	
Asp	Arg	Ile	Arg	Leu	Phe	Glu	Asn	Gly	Ser	Leu	Leu	Leu	Ser	Asp	Leu
			100					105					110		
Gln	Leu	Ala	Asp	Glu	Gly	Thr	Tyr	Glu	Val	Glu	Ile	Ser	Ile	Thr	Asp
		115					120					125			
Asp	Thr	Phe	Thr	Gly	Glu	Lys	Thr	Ile	Asn	Leu	Thr	Val	Asp	Val	Pro
	130					135					140				
Ile	Ser	Arg	Pro	Gln	Val	Leu	Val	Ala	Ser	Thr	Thr	Val	Leu	Glu	Leu
145					150					155					160

<400>	29														
Val	Asn	Ile	Thr	Ser	Pro	Val	Arg	Leu	Ile	His	Gly	Thr	Val	Gly	Lys
1				5					10					15	
Ser	Ala	Leu	Leu	Ser	Val	Gln	Tyr	Ser	Ser	Thr	Ser	Ser	Asp	Arg	Pro
			20					25					30		
Val	Val	Lys	Trp	Gln	Leu	Lys	Arg	Asp	Lys	Pro	Val	Thr	Val	Val	Gln
		35					40					45			
Ser	Ile	Gly	Thr	Glu	Val	Ile	Gly	Thr	Leu	Arg	Pro	Asp	Tyr	Arg	Asp
	50					55					60				
Arg	Ile	Arg	Leu	Phe	Glu	Asn	Gly	Ser	Leu	Leu	Leu	Ser	Asp	Leu	Gln
65					70					75					80
Leu	Ala	Asp	Glu	Gly	Thr	Tyr	Glu	Val	Glu	Ile	Ser	Ile	Thr	Asp	Asp
				85					90					95	
Thr	Phe	Thr	Gly	Glu	Lys	Thr	Ile	Asn	Leu	Thr	Val	Asp	Val	Pro	Ile
			100					105					110		
Ser	Arg	Pro	Gln	Val	Leu	Val	Ala	Ser	Thr	Thr	Val	Leu	Glu	Leu	Ser
		115					120					125			
Glu	Ala	Phe	Thr	Leu	Asn	Cys	Ser	His	Glu	Asn	Gly	Thr	Lys	Pro	Ser
	130					135					140				
Tyr	Thr	Trp	Leu	Lys	Asp	Gly	Lys	Pro	Leu	Leu	Asn	Asp	Ser	Arg	Met
145					150					155					160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser His
 195 200 205

His His His His His
 210

<210> 30
 <211> 439
 <212> PRT
 <213> Homo sapiens

<400> 30
 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Glu

195					200					205					
Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr	Cys	Pro	Pro	Cys	Pro	Ala	Pro
	210					215					220				
Glu	Leu	Leu	Gly	Gly	Pro	Ser	Val	Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys
225					230					235					240
Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val
				245					250					255	
Asp	Val	Ser	His	Glu	Asp	Pro	Glu	Val	Lys	Phe	Asn	Trp	Tyr	Val	Asp
			260					265					270		
Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr
		275					280					285			
Asn	Ser	Thr	Tyr	Arg	Val	Val	Ser	Val	Leu	Thr	Val	Leu	His	Gln	Asp
	290					295					300				
Trp	Leu	Asn	Gly	Lys	Glu	Tyr	Lys	Cys	Lys	Val	Ser	Asn	Lys	Ala	Leu
305					310					315					320
Pro	Ala	Pro	Ile	Glu	Lys	Thr	Ile	Ser	Lys	Ala	Lys	Gly	Gln	Pro	Arg
				325					330					335	
Glu	Pro	Gln	Val	Tyr	Thr	Leu	Pro	Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys
			340					345					350		
Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp
		355					360					365			
Ile	Ala	Val	Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys
	370					375					380				
Thr	Thr	Pro	Pro	Val	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser
385					390					395					400
Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser
				405					410					415	
Cys	Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser
			420					425					430		
Leu	Ser	Leu	Ser	Pro	Gly	Lys									
		435													

<210> 31
 <211> 186
 <212> PRT
 <213> Homo sapiens

<400> 31
 Val Arg Leu Ile His Gly Thr Val Gly Lys Ser Ala Leu Leu Ser Val
 1 5 10 15

Gln	Tyr	Ser	Ser	Thr	Ser	Ser	Asp	Arg	Pro	Val	Val	Lys	Trp	Gln	Leu
			20					25					30		
Lys	Arg	Asp	Lys	Pro	Val	Thr	Val	Val	Gln	Ser	Ile	Gly	Thr	Glu	Val
		35					40					45			
Ile	Gly	Thr	Leu	Arg	Pro	Asp	Tyr	Arg	Asp	Arg	Ile	Arg	Leu	Phe	Glu
	50					55					60				
Asn	Gly	Ser	Leu	Leu	Leu	Ser	Asp	Leu	Gln	Leu	Ala	Asp	Glu	Gly	Thr
65					70					75					80
Tyr	Glu	Val	Glu	Ile	Ser	Ile	Thr	Asp	Asp	Thr	Phe	Thr	Gly	Glu	Lys
				85					90					95	
Thr	Ile	Asn	Leu	Thr	Val	Asp	Val	Pro	Ile	Ser	Arg	Pro	Gln	Val	Leu
			100					105					110		
Val	Ala	Ser	Thr	Thr	Val	Leu	Glu	Leu	Ser	Glu	Ala	Phe	Thr	Leu	Asn
		115					120					125			
Cys	Ser	His	Glu	Asn	Gly	Thr	Lys	Pro	Ser	Tyr	Thr	Trp	Leu	Lys	Asp
	130					135					140				
Gly	Lys	Pro	Leu	Leu	Asn	Asp	Ser	Arg	Met	Leu	Leu	Ser	Pro	Asp	Gln
145					150					155					160
Lys	Val	Leu	Thr	Ile	Thr	Arg	Val	Leu	Met	Glu	Asp	Asp	Asp	Leu	Tyr
				165					170					175	
Ser	Cys	Met	Val	Glu	Asn	Pro	Ile	Ser	Gln						
			180					185							